MORS Workshop Outbrief:

Improving Defense Analysis Through Better Data Practices

Working Group # 2 Report:

Obtaining Data from Outside Sources

March 25 - 27, 2003

Alexandria, VA

Chairs:

MORS
MILITARY OPERATIONS RESEARCH SOCIETY

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- Ambrose Brennan (PA&E JDS)
- Michelle Busbee (NAIC)
- John Christakos (OSEC)
- Vic DiRienzo (Alion)
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- Jack Sheehan (DOT&E/DMSO)
- Gene Visco (Visco Consulting)
- Dan Kim (DFI International)
- Bruce Esken (SAIC)
- Phil Barry (Mitre)

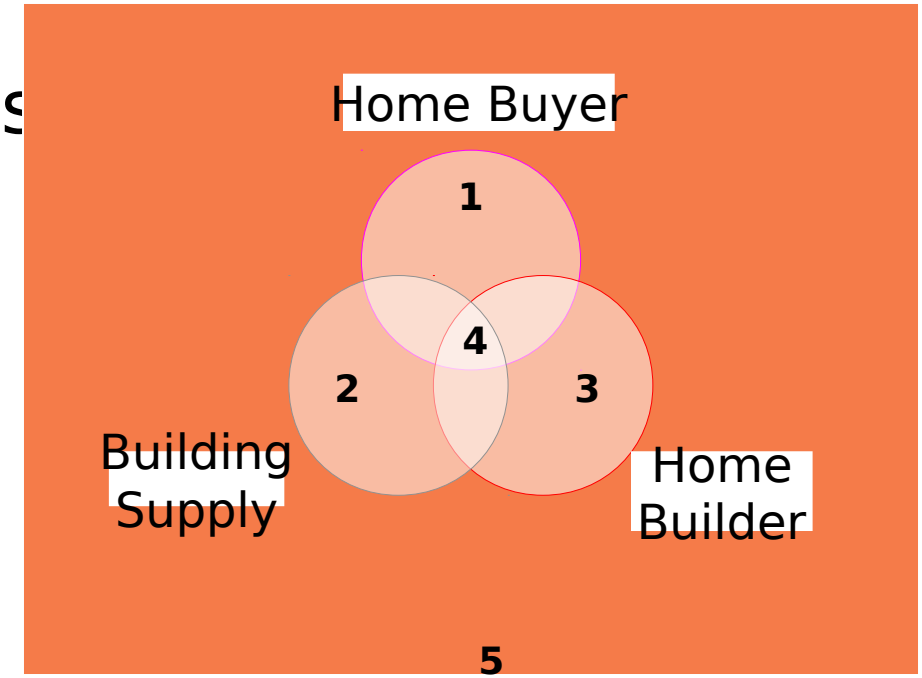
WG 2 – Obtaining Data from Outside Sources

- **Issues, incentives with outside data:**
  - **Visibility, Availability, Suitability, Access**
  - **Credibility, Timeliness, Affordability**
  - **Planning, Producing, Paying**
- **Scope of discussion**
  - **Requirement: Scope & Framework**
  - **Content: Core (enterprise), Common (COI), Custom (private)**
  - **Policy: Business Model & Budgeting**
  - **Technology: Capabilities & Constraints**
- **Approach/Methodology used by the group**
  - **2 case studies (TMAP, JMEM)**
  - **4 topics discussed in 3 sub-groups with cross-briefing**

Housing Construction Metaphor

Five Data Working Groups

1) Data Management
2) Obtaining External Data
3) Creating Data Internally
4) Transforming and Employing
5) Data Technology



WG 2 – Purpose and Context: Two Broad Circumstances

- **Normal Op's**
  - **Decisions: JSCAP, TOA, Force Structure, Acquisition Milestones**
  - **Tempo: Deliberate Planning**
  - **Paradigm: Invest in Capability**
  - **Fame: Go Slow, Finish First**
  - **Shame: Haste Makes Waste**
  - **Objective: Get it Right with All Deliberate Speed**
- **Examples:**
  - **Combatant Commander deliberate planning**
  - **Service Chief personnel, training, spares planning**
  - **Joint Chiefs out-year force mix planning**
  - **Acquisition Chiefs new airframe, hull, chassis AoA**

WG 2 – Purpose and Context: Two Broad Circumstances

- **Response Op's**
  - **Decisions: Crisis Management, Force Selection, Opportunity Branches and Sequels**
  - **Tempo: Crisis Action Planning**
  - **Paradigm: Buy Services**
  - **Fame: Speed Kills**
  - **Shame: Delay leads to Defeat**
  - **Objective: Best Available by the Deadline**
- **Examples**
  - **Consequence Mgt: Air Traffic Shutdown on 9/11**
  - **Force Selection: for Op Enduring and Iraqi Freedom**
  - **Tech Opportunity: Tactical Internet, Wireless Comm's**

WG 2 – Sequence of Success: Five Key Elements

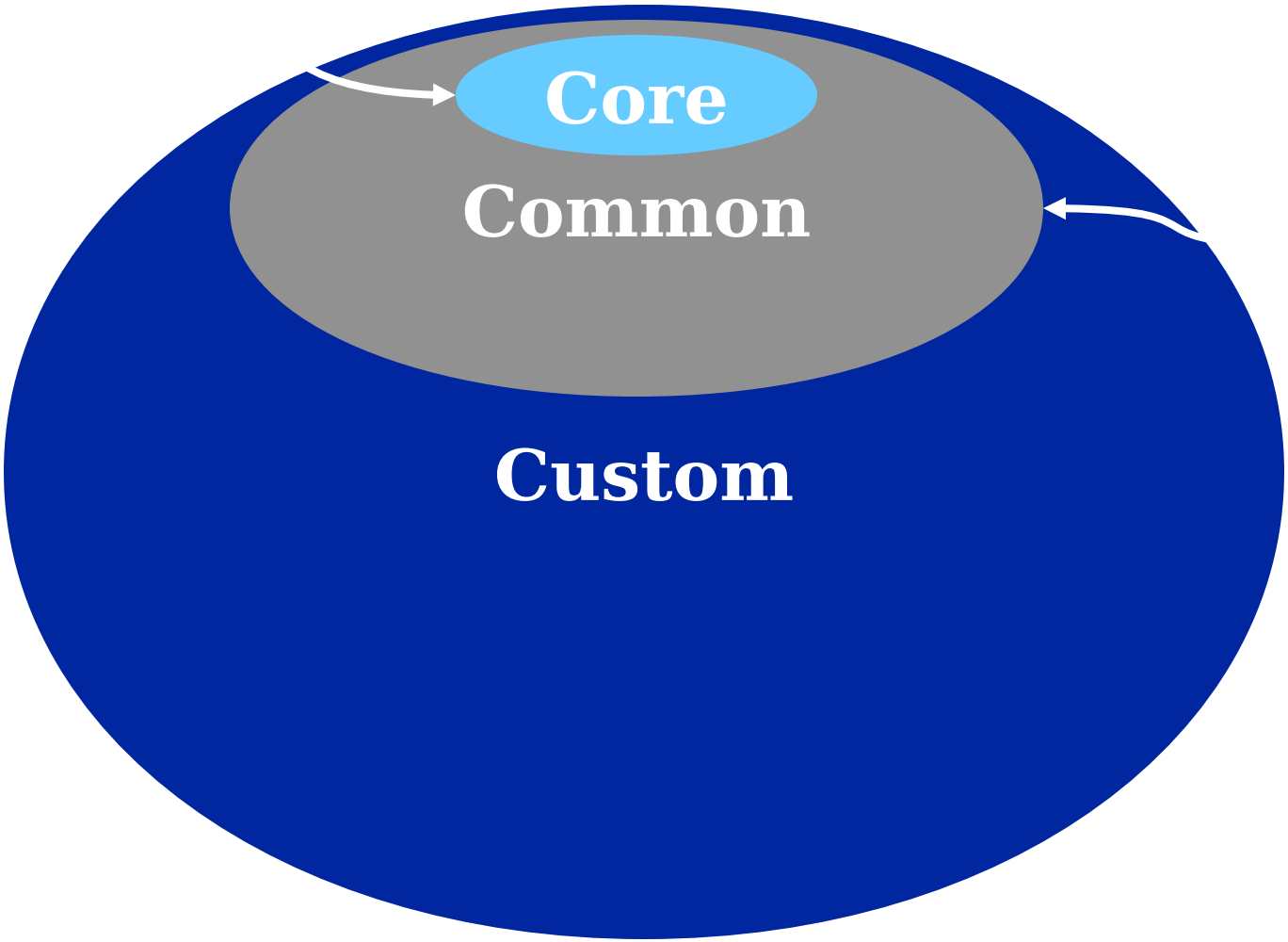
- **(1) Requirements Engineering with Users**
  - **the more complete the better**
- **(2) Social Engineering with Stakeholders**
  - **-- must enlist voluntary cooperation**
- **(3) Technical Engineering --**
  - **system/technical architecture should be Technology Readiness Level 8**
- **(4) Information Engineering**
  - **demand pull (users pull products, products pull tools)**
- **(5) Inventory Management**
  - **stock components that can be tailored for custom assembly**

WG 2 – Content Issues

- **Core:**
  - **Information elements that capture Purpose, Identity, Context -- defines COI's**
- **It’s the Mission that Counts**
  - **Defined by Mission at Level of War which in turn defines and is composed of subordinate Missions at or below the same Level of War.**
- **Prefabricate selected Core and Common content**
  - **based on Difficulty, Importance, Frequency, Mutability**

Required Content

Without this stuff there is no scenario



Most scenarios use some of this stuff

Somewhere someone needs some of this stuff

Policy Issues

		Present Condition		
		Institutional Provider	**Executive Agent**	**Local Tribe**
		for the DoD Enterprise	for the Comm Of Interest	for the Private Interest
	Core	Not Suitable		
Content	Common		Roll Your Own	
	Custom			"Un-Obtainium"

		Present Condition		
		Institutional Provider	**Executive Agent**	**Local Tribe**
		for the DoD Enterprise	for the Comm Of Interest	for the Private Interest
	Core	Not Suitable		
Content	Common		Roll Your Own	
	Custom			"Un-Obtainium"

Policy Issues

		Desired Condition		
		Institutional Provider	**Executive Agent**	**Local Tribe**
		for the DoD Enterprise	for the Comm Of Interest	for the Private Interest
	Core	Immutable		
Content	Common	Baseline (D, I, F)	Assembled	
	Custom		Consensus	Tailored++

WG 2 – Way Forward

- **Immediate:**
  Recommend these content baselines for the Core:
  - **Unit Order of Battle**
  - **Mission Essential Task Lists**
  - **Weapon Effects**
  - **Threat Representations**
- **Intermediate**
  “Joint” funding for Core content using COI priorities
  - **Example: JMEM plus-up for CC requirements**
  - **Example: Proposed CTEIP funding of TMAP**
  - **Example: Possible JTIMS support for non-training METL’s**
- **Long Term**
  - **Need a Demonstration/Experimentation of Framework, Procedures, Value-Added of Top-Down definition/stocking of Core and Common "Data+Algorithm for Purpose in Context" followed by Bottom-Up reconstitution of COI, Private use.**